

What is claimed is:

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5 1. A PC switching device, which is installed between a keyboard without a power control key and a plurality of personal computers intended for keyboards with power control keys which are connected to the keyboard without a power control key, comprises:

a plurality of power control switches corresponding to said plurality of personal computers;
a recognizing means for recognizing that
10 some of the plurality of personal computers which correspond to at least one of the plurality of power control switches firstly pressed are in power-on state;
a selective inputting means for selectively inputting commands from one set of input
15 devices including the keyboard without a power control key to one of the plurality of personal computers; and
a code transmitting means for transmitting codes assigned to the power control switches when the power control switches which correspond to the personal
20 computers recognized as being in power-on state by said power-on-state recognizing means are pressed again and said personal computers are selected by said selective inputting means.

25 2. A PC switching device which is installed between a keyboard with a power control key and a plurality of personal computers intended for keyboards with power control keys, comprises:

a powering means for powering all of said plurality of personal computers simultaneously by
30 pressing said power control key on said keyboard when said plurality of personal computers are in power-off state;

a recognizing means for recognizing that
all of said plurality of personal computers are in a
35 power-on state;

a selective inputting means for selectively inputting commands from one set of input

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a code transmitting means for transmitting
a code assigned to the power control key when the
5 personal computers recognized as being in power-on state
by said recognizing means are selected by said selective
inputting means and said power control is pressed; and

15 3. A PC switching device which is installed between a keyboard with a power control key and a plurality of personal computers fit for keyboards with power control keys, comprises:

a recognizing means for recognizing that said selected personal computers are turned on;

30 a code assigned to said power control key when the personal computers recognized as being in power-on state by said recognizing means are selected by said selective inputting means and said power control key on said keyboard is pressed again.

35 4. A PC switching device which is installed
 between a keyboard and a plurality of personal computers,
 comprises:

comparators for comparing a voltage at each of said power supply terminals with a voltage of said power receiving terminal, and turning on some of said transistors when the former is higher than the latter, but tuning off other transistors when the former is lower than the latter.

transistors for controlling connecting
15 states between power supply terminals of a plurality of
personal computers for powering keyboards and a power
receiving terminal of said keyboard;

first voltage dividers for dividing each
of the voltages at said power supply terminals;
20 second voltage dividers for dividing the
voltage at said power receiving terminal by the ratio
equal to that of said first voltage dividers; and

comparators for comparing a voltage divided by each of said first voltage dividers with a voltage divides by said second voltage divider, and turning on some of said transistors when the former is higher than the latter, but tuning off other transistors when the former is lower than the latter.

30 6. A PC switching device according to claim 4 or 5, wherein said comparators are driven by power supplied from said power supply terminals of the plurality of personal computers.

35 7. A PC switching device according to claim 4 or 5, wherein said comparators are driven by power supplied from said power receiving terminal of the keyboard.

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